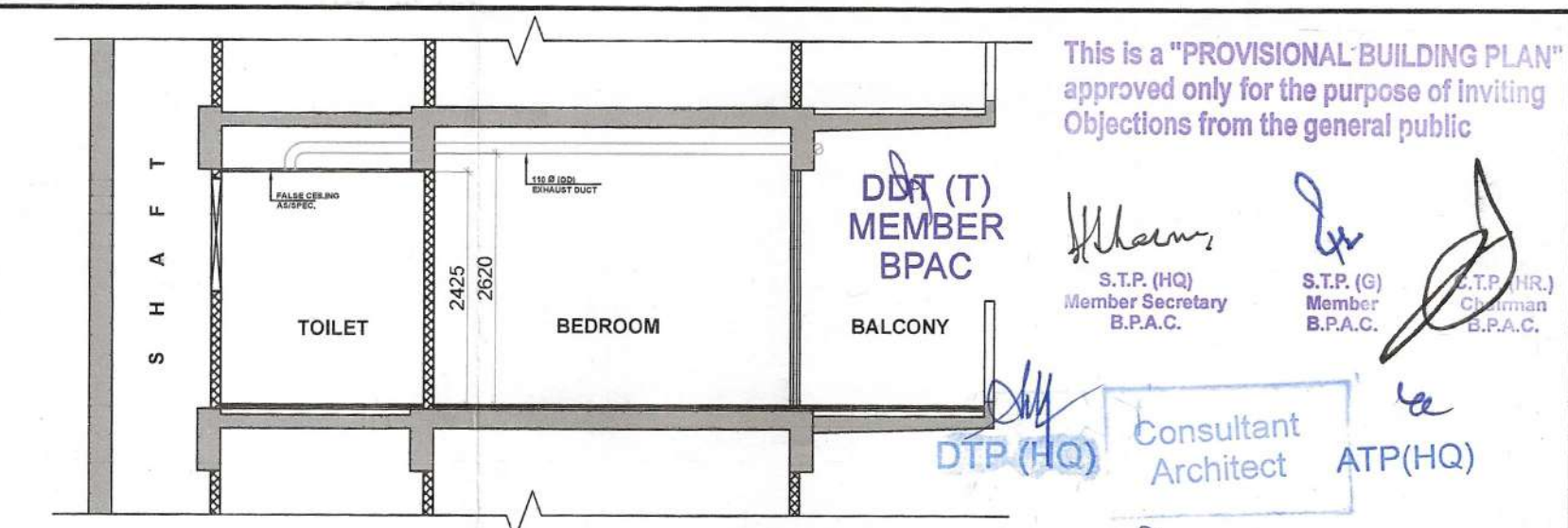
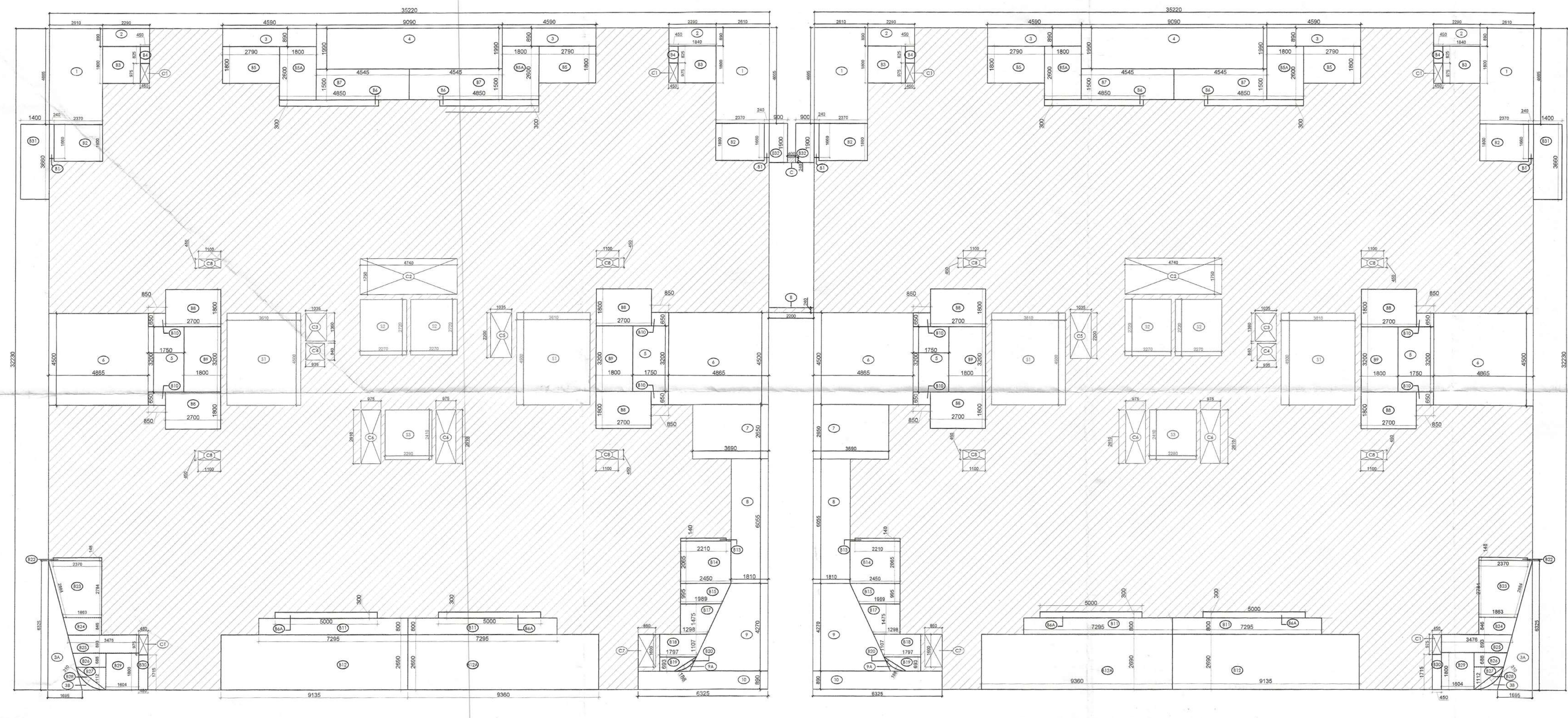
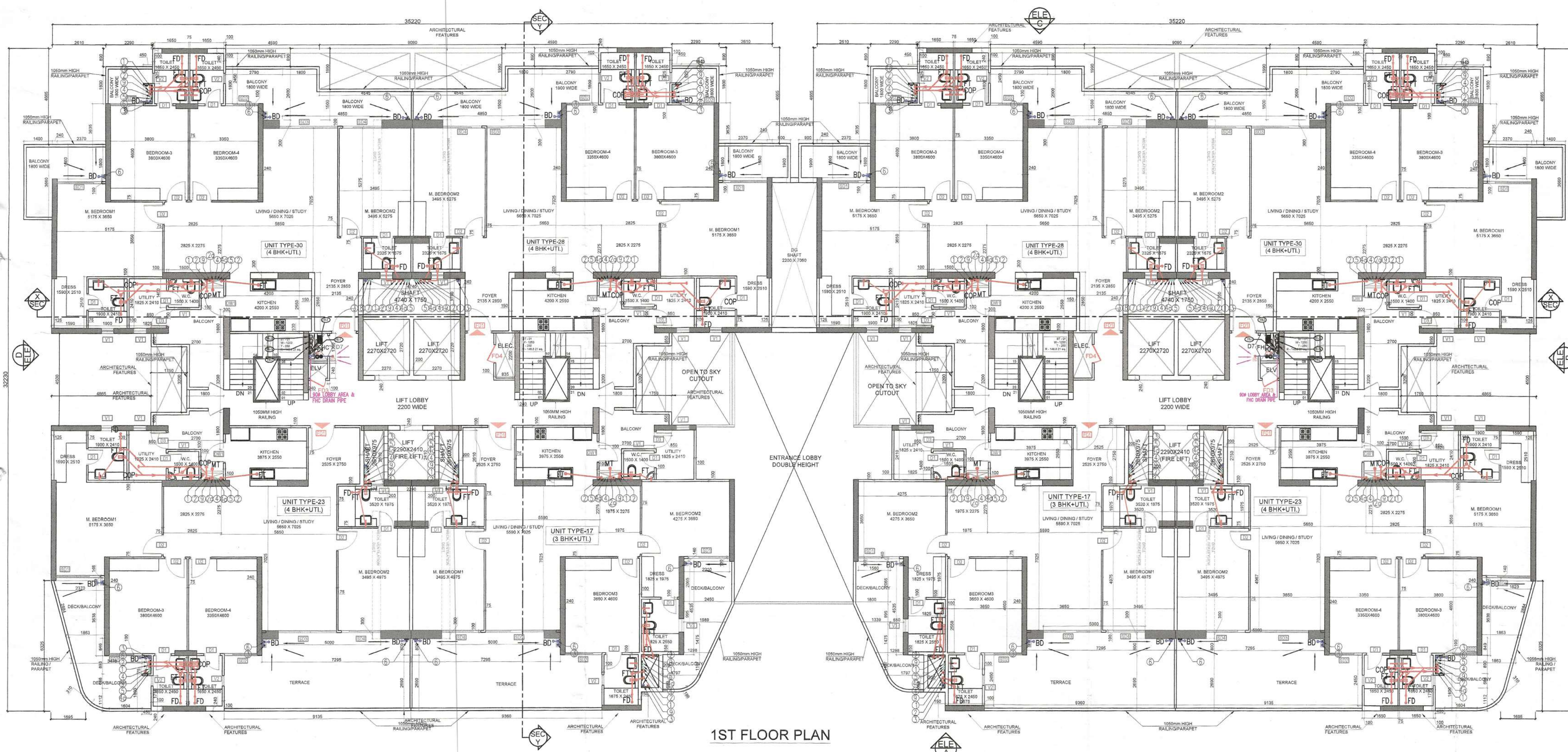




TO BE READ WITH THIS OFFICE
MEMO NO: 9820
DATED: 15/03/24

Checked and found ok for Public Health
(Internal) Service only subject to comments in
in forwarding letter No. 1650...DW 24/11/24

Superintending Engineer (HQ)
for Chief Engineer-I
HSVP, Panaji

DA (T) MEMBER BPAC
S.T.P. (HQ) Member Secretary B.P.A.C.
S.T.P. (G) Member Secretary B.P.A.C.
S.T.P. (R) Member Secretary B.P.A.C.
Consultant Architect
ATP (HQ)

AREA CALCULATION FOR 1st FLOOR

FAR AREA

S.NO.	NOS.	FORMULA	LENGTH (L)	WIDTH (W)	WIDTH (W')	AREA	UNITS
A	2	L X W	35.220	32.230		2270.281	SQM.
B	1	L X W	2.200	0.240		0.528	SQM.
C	1	L X W	0.400	0.240		0.096	SQM.
TOTAL (A) =						2270.905	SQM.

BALCONY

S.NO.	NOS.	FORMULA	LENGTH (L)	WIDTH (W)	WIDTH (W')	AREA	UNITS
B1	4	L X W	0.240	1.060		1.594	SQM.
B2	4	L X W	2.370	1.800		17.064	SQM.
B3	4	L X W	1.840	1.800		13.248	SQM.
B4	4	L X W	0.450	0.825		1.485	SQM.
B5	4	L X W	2.790	1.800		20.088	SQM.
B6	4	L X W	1.800	2.600		18.720	SQM.
B7	4	L X W	4.850	0.300		5.820	SQM.
B8	4	L X W	5.000	0.300		6.000	SQM.
B9	4	L X W	4.545	1.500		27.270	SQM.
B10	8	L X W	2.700	1.800		38.880	SQM.
B11	4	L X W	1.800	3.200		23.040	SQM.
B12	2	L X W	9.135	2.690		49.146	SQM.
B12A	2	L X W	9.360	2.690		50.357	SQM.
B13	2	L X W	2.210	0.140		0.619	SQM.
B14	2	L X W	2.450	2.065		10.119	SQM.
B15	2	AS PER PLINE				4.412	SQM.
B17	2	AS PER PLINE				4.844	SQM.
B18	2	AS PER PLINE				4.550	SQM.
B19	2	1/2 X H (L+H)				1.736	SQM.
B20	2	AS PER PLINE				0.328	SQM.
B22	2	L X W	2.370	0.148		0.702	SQM.
B23	2	1/2 X H (L+H)				12.458	SQM.
B24	2	AS PER PLINE				2.970	SQM.
B25	2	AS PER PLINE				5.962	SQM.
B26	2	AS PER PLINE				2.120	SQM.
B27	2	AS PER PLINE				1.610	SQM.
B28	2	AS PER PLINE				0.770	SQM.
B29	2	L X W	1.604	1.800		5.774	SQM.
B30	2	L X W	0.450	1.715		1.544	SQM.
TOTAL (B1) =						360.992	SQM.

SIDE BALCONIES

S.NO.	NOS.	FORMULA	LENGTH (L)	WIDTH (W)	WIDTH (W')	AREA	UNITS
B31	2	L X W	1.400	3.660		10.248	SQM.
B32	2	L X W	0.900	1.900		3.420	SQM.
TOTAL (B2) =						13.668	SQM.
TOTAL AREA OF BALCONIES (B) = B1+B2						374.660	SQM.

CUT OUT / DEDUCTION AREA

S.NO.	NOS.	FORMULA	LENGTH (L)	WIDTH (W)	WIDTH (W')	AREA	UNITS
1	4	L X W	2.610	4.065		48.703	SQM.
2	4	L X W	2.290	0.890		8.152	SQM.
3	4	L X W	4.590	0.890		16.340	SQM.
3A	2	1/2 X B X H	6.325	1.695		10.718	SQM.
3B	2	AS PER PLINE				0.506	SQM.
4	2	L X W	9.090	1.990		36.178	SQM.
5	4	L X W	1.750	3.200		22.400	SQM.
6	4	L X W	4.865	4.500		87.570	SQM.
7	2	L X W	3.690	2.850		19.557	SQM.
8	2	L X W	6.055	1.810		21.919	SQM.
9	2	1/2 X H (L+H)				23.958	SQM.
9A	2	AS PER PLINE				0.201	SQM.
10	2	L X W	6.325	0.890		11.259	SQM.
C1	6	L X W	0.975	0.450		2.633	SQM.
C2	2	L X W	4.740	1.750		16.590	SQM.
C3	2	L X W	1.035	1.360		2.815	SQM.
C4	2	L X W	0.935	0.840		1.571	SQM.
C5	2	L X W	1.035	2.200		4.554	SQM.
C6	4	L X W	0.975	2.810		10.179	SQM.
C7	2	L X W	0.850	1.600		2.720	SQM.
C8	8	L X W	1.100	0.450		3.960	SQM.
S2	4	L X W	2.270	2.720		24.698	SQM.
S3	2	L X W	2.250	2.410		11.038	SQM.
TOTAL (C) =						388.218	SQM.

NON FAR AREA

S1	4	L X W	3.610	4.500		64.980	SQM.
TOTAL (D) =						64.980	SQM.
TOTAL FAR AREA (A-B1+C+D)						1456.716	SQM.
TOTAL COVERED AREA = (A-B1+C)						1521.695	SQM.
TOTAL BUILT UP AREA (A+B2-C)						1896.355	SQM.

DOOR WINDOW OPENING SCHEDULE

ROUGH OPENING FROM FINISH LVL

TYPE	WIDTH	HEIGHT	CILL	LINTEL	FIRE RATING
D1	800	2425	00	2425	
D2	1000	2425	00	2425	
D3	900	2425	00	2425	
D4	650	2125	300	2425	
D5	750	2425	00	2425	
D6	1200	2425	00	2425	
D7	1000	2325	100	2425	
DW1	1000	2425	00	2425	
DW2	850	2425	00	2425	
V1	600	625	1800	2425	
V2	500	625	1800	2425	
V3	650	625	1800	2425	
SD1	1725	2425	00	2425	
SD2	2010	2425	00	2425	
SD3	2075	2425	00	2425	
SD4	3110	2425	00	2425	
SD5	1600	2425	00	2425	
SD6	2435	2425	00	2425	
GL1	2000	2425	00	2425	
FD1 (FIRE DOOR)	1200	2425	00	2425	1HR. FIRE RATING DOOR
FD2 (FIRE DOOR)	600	2425	00	2425	1HR. FIRE RATING DOOR
FD3 (FIRE DOOR)	750	2325	100	2425	2 HR. FIRE RATING DOOR
FD4 (FIRE DOOR)	900	2325	100	2425	2 HR. FIRE RATING DOOR

PLUMBING LEGEND:

①	1100 SOIL PIPE
②	1100 WASTE PIPE
③	1100 RAIN WATER PIPE
④	DWS DN TAKE PIPE
⑤	DWS DN TAKE PIPE
⑥	1100 BALCONY DRAIN PIPE
⑦	650 DOMESTIC WATER SUPPLY RISER
⑧	500 FLUSHING WATER SUPPLY RISER
⑨	750 ANTISYPHONAGE PIPE
WB TO FT	320 WASTE PIPE
SINK TO FT	500 WASTE PIPE
FD	FLOOR DRAIN WITH GRATING
FT	FLOOR TRAP WITH GRATING
MT	MULTI TRAP WITH GRATING
BD	BALCONY DRAIN WITH GRATING
DWS	DOMESTIC WATER SUPPLY PIPE
FWS	FLUSHING WATER SUPPLY PIPE
DWS	DWS PIPE THROUGH BOOSTER PUMP
GEYSER	TOILET GEYSER 25LTR
GEYSER	KITCHEN GEYSER 6LTR
P	BOOSTER PUMP SET FOR TOP TWO FLOOR
CATCH BASIN	1100x500mm

Note:
1. The kitchen space has been considered as non-habitable space as per NBC 2016 Part-3 Section 2.45 clause, thus lighting and ventilation clause for kitchen do not apply only for main units kitchen.
2. Toilets are mechanically ventilated wherever marked in plan.

